Claims

1. Method for pre-emphasizing an optical multiplex signal (OS)
    which features a number of signals with different
    wavelengths which are transmitted from a transmitter to a
    receiver, in which powers of the signals are set at the
    transmitter ($P_{IN}(\lambda)$ and also measured at the receiver
    ($P_{OUT}(\lambda)$,

characterized in that
    an average power ($<P_{IN}>$)is determined for the send-side
    signals,
    from the current powers of the signals at the transmitter
    ($P_{IN}(\lambda)$ and at the receiver $P_{OUT}(\lambda)$ and the average power
    ($<P_{IN}>$) new signal values ($P_{IN}(\lambda)\_new$)are determined and set
    on the send side, such that at the receiver signal-to-noise
    ratios of all signals are almost equalized.